



# ICECUBE

## MASTERCLASS AT IOPB



AN AUTHENTIC ASTROPHYSICS RESEARCH EXPERIENCE

# BE A SCIENTIST FOR A DAY

## March 27, 2025

## Institute of Physics, Bhubaneswar

- Collaborate with IceCube scientists in analyzing their data and learn from researchers, why a career in science is not only interesting, but also fun and rewarding.
- Join a video conference with the winterovers - scientists who spend the winter at the South Pole maintaining the IceCube detector - for an engaging discussion about life and research at the Pole.
- Attend popular science and detector talks by eminent scientists in the field.
- Gain hands-on experience working with experimental data.

For students interested in physics, engineering, data science, and space research this experience serves as an inspiration and stepping stone towards higher studies.

Participation is by invitation only



[icecube.wisc.edu/masterclass](http://icecube.wisc.edu/masterclass)



Contacts

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Date: March 27, 2025, Thursday (9:00 AM - 7:00 PM)

Venue: Block – A Lecture Hall, Institute of Physics (IOP), Bhubaneswar

### PROGRAM

9:00 - 9:30	Registration
9:30 - 10:00	<b>Welcome Address</b> <ul style="list-style-type: none"><li>• Prof. K. K. Nanda, The Director, IOP, Bhubaneswar</li><li>• Lt. Col. B. Pattanaik, The Registrar, IOP, Bhubaneswar</li><li>• Prof. S. K. Agarwalla, Coordinator, IOP, Bhubaneswar</li></ul>
10:00 - 10:45	<b>Lecture-I: Exciting Journey into the World of Invisible Neutrinos</b> <i>Prof. Sanjib Kumar Agarwalla, (Institute of Physics, Bhubaneswar)</i>
10:45 - 11:15	Tea Break
11:15 – 1:00	Introduction to the IceCube Neutrino Observatory
1:00 – 2:00	Lunch and Group Photo
2:00 – 3:00	IceCube Data Analysis: Session – I
3:00 – 3:45	<b>Lecture-II: From Cosmic Rays to IceCube: A Journey of a Century</b> <i>Prof. Christian Spiering, (DESY, Germany)</i>
3:45 – 4:30	<b>Lecture-III: Neutrino Astronomy: A Window to the Extreme Universe</b> <i>Prof. Marek Kowalski (DESY, Germany)</i>
4:30 – 5:00	Tea Break
5:00 – 6:15	IceCube Data Analysis: Session – II and Discussion
6:15 – 6:45	Live Video Conference with the Wintrovers from the South Pole
6:45 – 7:00	Distribution of Participation Certificate and Vote of Thanks

#### Contact Details:

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